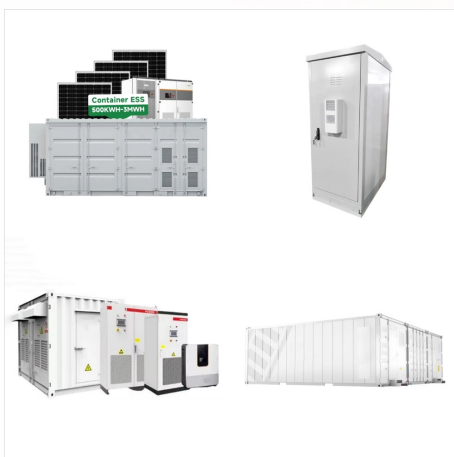




The G20 countries would account for 85% of renewables deployment including China 26%, United States 15%, India 12%, European Union 9%. This limited number of actors plays a critical role for the energy transition. The share of renewable energy in total primary energy supply would rise from 14% in 2015 to 63% in 2050.



Edited by Dr. Alicia Trivino, Prof. Dr. Sonia Leva, Assoc. Professor Michela Longo, Assist. Prof. Nicoletta Matera. 27 September 2024. View all issues. Read the latest articles of Sustainable Energy Technologies and Assessments at ScienceDirect , Elsevier's leading platform of peer-reviewed scholarly literature.



Energy is the building block for modern civilization and sustainable development [1]. Fossil-fuel based energy production is responsible for climate change [2] and globally, international pledges such as Paris Agreement is considered as guiding mechanism to restrict the global average temperature below 1.5 C for which technological advancements in the area of ???



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The primary objective of the research on "The Renewable Energy Role in the Global Energy Transition" is to comprehensively analyze and evaluate the impact and potential of renewable energy sources in driving the global shift away from fossil fuels towards more sustainable, clean energy systems.



Sustainable Energy. Sustainable energy can be defined as energy sources that are not expected to be depleted in a time frame relevant to the human race; therefore they contribute to the sustainability of all species. This definition of sustainable energy and the preceding definition of renewable energy represent typical definitions of both terms.



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The global energy structure has been gradually shifting towards a more diversified and sustainable mix, with varying growth rates for fossil energy, nuclear energy, and renewable energy. The pace of this transition depends on a range of factors specific to each country, including resource availability, technological advancements, policy frameworks, and public ???